## Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1.	(Canceled)
2.	(Currently Amended) A CAM device according to claim 1, A CAM device
comprising:	
	a CAM array including a plurality of physical banks;
	a logical bank-physical bank converter for setting an assignment between
logical banks	and physical banks, and for outputting a control signal to set a configuration of
a physical ba	nk assigned to a logical bank to be searched, depending on a logical bank signal
indicating the	e logical bank to be searched;
	a priority circuit for outputting search results in accordance with
predetermine	d priority,
	_wherein in searching, if the CAM device includes no physical bank assigned to
a-the logical	bank to be searched, the logical bank-physical bank converter outputs a signal to
the cascade c	ireuit to inform that there is no physical bank assigned to the logical bank.; and
	in response to the signal, the cascade circuit outputs a signal indicating that the
CAM device	includes no hit entry.
3.	(Currently Amended) A-The CAM device according to claim 12, wherein
when searchi	ng is performed, the logical bank physical bank converter outputs, to each
physical banl	c assigned to the logical bank to be searched, a control signal for dynamically
setting the co	onfiguration of the physical bank, further comprising:
	a cascade circuit for performing a logical operation on the search results output
from the prio	rity circuit of the CAM device and search results supplied from a higher-order

CAM device, and transmitting the results of the logical operation to a lower-order CAM device,

wherein the logical bank-physical bank converter outputs the signal to the cascade circuit and, in response to the signal, the cascade circuit outputs a signal indicating that the CAM device includes no hit entry.

- 4. (Currently Amended) A-The CAM device according to claim 2, wherein when searching is performed, the logical bank-physical bank converter outputs, to each physical bank assigned to the logical bank to be searched, a control signal for dynamically setting the configuration of the physical bank.
  - 5. (Canceled)
- 6. (Currently Amended) A-The CAM device according to claim 2, wherein the logical bank-physical bank converter is capable of assigning one physical bank to two or more different logical banks.
  - 7. (Canceled)
- 8. (Currently Amended) A-The CAM device according to claim 4, wherein the logical bank-physical bank converter is capable of assigning one physical bank to two or more different logical banks.
  - 9. (Canceled)
- 10. (Currently Amended) A-The CAM device according to claim 63, wherein said cascade circuit outputs signal HO as logical OR on a signal HIT of the CAM device and an input signal HI, and outputs signal FLO as logical AND on a signal FULL and an input signal FLI.
  - 11. (Canceled)
- 12. (Currently Amended) A-The CAM device according to claim 8, <u>further</u> comprising:

a cascade circuit for performing a logical operation on the search results output
from the priority circuit of the CAM device and search results supplied from a higher-order
CAM device, and transmitting the results of the logical operation to a lower-order CAM
device,
wherein said cascade circuit outputs signal HO as logical OR on a signal HIT
of the CAM device and an input signal HI, and outputs signal FLO as logical AND on a signal
FULL and an input signal FLI.

13. (Currently Amended) A CAM device comprising:

a CAM array including a plurality of physical banks;

a logical bank-physical bank converter for setting the an assignment between logical banks and physical banks, and for outputting a control signal to set the a configuration of a physical bank assigned to the a logical bank to be searched, depending on a logical bank signal indicating a the logical bank to be searched, to the physical bank assigned to the logical bank to be searched, while when the CAM device includes no physical bank assigned to the logical bank to be searched, a signal is output to indicate that there is no physical bank assigned to the logical bank;

a priority circuit for outputting search results in accordance with predetermined priority; and

a cascade circuit for performing a logical operation on the search results output from the priority circuit of the present CAM device and a-search results supplied from a <a href="higher-order-higher-order-cam">higher-order-cam</a> CAM device, and transmitting the results of the logical operation to a lower-order CAM device.

14. (Currently Amended) A-The CAM device according to claim 13, wherein said

cascade circuit outputs signal HO as logical OR on a signal HIT of the CAM device and an input signal HI, and outputs signal FLO as logical AND on a signal FULL and an input signal FLI.